APPLICATION FOR REISSUANCE OF **VPDES PERMIT** NO. 0061859

COURTLAND & **ENVIRONS WWTP**

JANUARY 28, 2015

	NPDES Form 2A	
2	VPDES Sewage Sludge Permit Application Form	
3	VPDES Permit Application Addendum	
4	Permit Maintenance Fee Information	
5	Topographic Map	
6	Treatment Plant Process Flow Schematic	
7		
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10	RECEIVED - DEQ	
11	JAN 2 9 2015 Tidewater Regional Office	
12		

SOUTHAMPTON COUNTY

26022 Administration Center Drive P. O. Box 400 Courtland, Virginia 23837



757-653-3015 Fax: 757-653-0227

January 28, 2015

Mr. Robert Smithson DEQ – Tidewater Regional Office 5636 Southern Boulevard Virginia Beach, VA 23462 RECEIVED - DEQ

JAN 2 9 2015

Tidewater Regional Office

RE: Courtland & Environ WWTP – VPDES Permit NO. VA0061859 Renewal Application

Dear Mr. Smithson:

Please find enclosed our application for the reissuance of VPDES Permit No. VA0061859.

Should you have any questions, please feel free to contact me at (757) 742-6233.

Respectfully submitted,

Rahit E. Crik

Robert E. Croak

Southampton County

Dept. of Public Utilities

FACILITY NAME AND PERMIT NUMBER:

Form Approved 1/14/99 OMB Number 2040-0086

Courtland and Environs WWTP VA 0061859 BASIC APPLICATION INFORMATION PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS: All treatment works must complete questions A.1 through A.8 of this Basic Application Information packet. A.1. Facility Information. Facility name Courtland and Environs WWTP Mailing Address 24448 Old Bridge Road Courtland, VA. 23837 Contact person Michael W. Johnson Title County Administrator Telephone number (757) 653-3015 **Facility Address** 24448 Old Bridge Road Courtland, VA. 23837 (not P.O. Box) A.2. Applicant Information. If the applicant is different from the above, provide the following: Applicant name Mailing Address Contact person Title Telephone number is the applicant the owner or operator (or both) of the treatment works? operator Indicate whether correspondence regarding this permit should be directed to the facility or the applicant. applicant A.3. Existing Environmental Permits. Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits). NPDES <u>VA. 0061859</u> PSD UIC Other **RCRA** Other <u>VA 0061859 (VPDES)</u> A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.). Name **Population Served** Type of Collection System Ownership Courtland Separate Public

Total population served 1700

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Courtland and Environs WWTP VA 0061859 A.5. Indian Country. a. Is the treatment works located in Indian Country? Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country? Yes A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal. 0.99 mgd a. Design flow rate _____ Two Years Ago Last Year This Year b. Annual average daily flow rate 0.17 0.18 0.18 mgd c. Maximum daily flow rate 0.34 0.44 0.31 mgd A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each. Separate sanitary sewer Combined storm and sanitary sewer A.8. Discharges and Other Disposal Methods. a. Does the treatment works discharge effluent to waters of the U.S.? If yes, list how many of each of the following types of discharge points the treatment works uses: i. Discharges of treated effluent ii. Discharges of untreated or partially treated effluent iii. Combined sewer overflow points iv. Constructed emergency overflows (prior to the headworks) v. Other N/A Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.? Yes If yes, provide the following for each surface impoundment: Annual average daily volume discharged to surface impoundment(s) mad Is discharge _ intermittent? continuous or c. Does the treatment works land-apply treated wastewater? Yes If yes, provide the following for each land application site: Location: Number of acres: Annual average daily volume applied to site: continuous or _____ intermittent? Is land application

treatment works?

d. Does the treatment works discharge or transport treated or untreated wastewater to another

Yes

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Courtland and Environs WWTP VA 0061859 If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe). If transport is by a party other than the applicant, provide: Mailing Address: Contact person: Title: Telephone number: For each treatment works that receives this discharge, provide the following: Name: Mailing Address: Contact person: Title: Telephone number: If known, provide the NPDES permit number of the treatment works that receives this discharge. Provide the average daily flow rate from the treatment works into the receiving facility. mgd

Does the treatment works discharge or dispose of its wastewater in a manner not included in

___ continuous or

A.8.a through A.8.d above (e.g., underground percolation, well injection)?

Description of method (including location and size of site(s) if applicable):

If yes, provide the following for each disposal method:

Annual daily volume disposed of by this method:

Is disposal through this method

Yes

intermittent?

		TY NAME AND PERM nd and Environs W		Form Approved 1/14/99 OMB Number 2040-008
	WA	STEWATER DISCHA	RGES:	
	lf yo	ou answered "yes" to ch effluent is dischare	o question A.8.a, complete qued. Do not include information	estions A.9 through A.12 once for each outfall (including bypass points) through on combined sewer overflows in this section. If you answered "no" to question or Applicants with a Design Flow Greater than or Equal to 0.1 mgd."
A.9.	D	escription of Outfall.		
	a.	Outfall number	001	
	b.	Location	Southampton County (City or town, if applicable)	23837 (Zip Code)
			Southampton (County) 36 40 28	VÅ. (State) 77 02 35
	C.	Dictance from share	(Latitude)	(Longitude)
	d.	Distance from shore Depth below surface	•	N/A ft.
	е.	Average daily flow ra		0 ft. 0.18 mgd
				0.10 mga
	f.	Does this outfall hav periodic discharge? If yes, provide the fo	e either an intermittent or a	Yes No (go to A.9.g.)
			year discharge occurs:	
		Average duration of		
		Average flow per dis	charge:	mgd
		Months in which disc	charge occurs:	
	g.	Is outfall equipped w	ith a diffuser?	Yes No
\.10.	De	scription of Receivin	g Waters.	
	a.	Name of receiving wa	Nottoway Rive	, Chowan River and Chowan River Basin
	b.	Name of watershed (if known)	Chowan
		United States Soil Co	onservation Service 14-digit wa	tershed code (if known): 03010203030020
	C.	Name of State Manag	gement/River Basin (if known):	Nottoway River Basin
		United States Geolog	ical Survey 8-digit hydrologic	ataloging unit code (if known): 03010201
	d.	Critical low flow of red	ceiving stream (if applicable):	

chronic N/A cfs

__ cfs

e. Total hardness of receiving stream at critical low flow (if applicable): ______ N/A mg/l of CaCO₃

Courtland a	and Environs WWTP VA 0061859						1					
A.11. Descr	ription of T	reatment.					***************************************	L				
a. W	Vhat levels o	of treatment	are prov	rided?	Check all th	at app	oly.					
_	Primary				s	econd	ary					
_	<u>√</u> A	dvanced			0	ther.	Describe:	Tertiary 7	reatment			
b. In	ndicate the fe	ollowing rer	noval rate	es (as	applicable)	;						
De	esign BOD ₅	removal o	Design (CBOD	removal			>9	5		%	
	esign SS re				3			>9	5		%	
Dŧ	esign P rem	ioval						>9	5		%	
De	esign N rem	ioval						>9	 		⁷⁰ %	
	ther								J			
		disinfaction	is used f	 for tha	offluent from	m thia					% 	
	JV Disinfed		is uscu i	ioi liie	emuem noi	n uus	outian? if the	sinfection varie	es by season,	please o	describe.	
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a. Do	oes the trea	tment plant	have pos	st aera	ation?					es/		No
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FACILITY NAME AND PERMIT NUMBER:

Courtland and Environs WWTP VA 0061859

Form Approved 1/14/99 OMB Number 2040-0086

В	SIC APPLICATION INFORMATION	
PA	RT B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).	
All	pplicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).	
	Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.	
	Briefly explain any steps underway or planned to minimize inflow and infiltration.	
	Periodic Smoke Testing	
B.2	Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)	
	a. The area surrounding the treatment plant, including all unit processes.	
	b. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable.	h
	c. Each well where wastewater from the treatment plant is injected underground.	
	d. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatmer works, and 2) listed in public record or otherwise known to the applicant.	nt
	e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed.	
	f. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed.	or
B.3.	Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram.	y
B.4.	Operation/Maintenance Performed by Contractor(s).	
	Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor?YesNo	3
	f yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).	
	Name: McGill Environmental Systems Permit No. VPA00837	
	Mailing Address: 5056 Beef Steak Road, Waverly, VA. 23890	
	elephone Number: (757) 647-6052	
	Responsibilities of Contractor: Accepts sewage sludge for disposal	
	scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or incompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the reatment works has several different implementation schedules or is planning several improvements, submit separate responses to question 1.5 for each. (If none, go to question 1.6.)	,
i	List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule. N/A	
ı	. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.	
	YesNo	

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Courtland and Environs WWTP VA 0061859 If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable). Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible. Schedule **Actual Completion** Implementation Stage MM / DD / YYYY MM / DD / YYYY - Begin construction _/__/___ ___/ ___/ ___ ____/ ____/ _____ - End construction - Begin discharge - Attain operational level Have appropriate permits/clearances concerning other Federal/State requirements been obtained? Yes No Describe briefly: B.6. EFFLUENT TESTING DATA (GREATER THAN O.1 MGD ONLY). Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old. Outfall Number: 001 POLLUTANT MAXIMUM DAILY **AVERAGE DAILY DISCHARGE** DISCHARGE Conc. Units Conc. Units **ANALYTICAL** Number of ML / MDL Samples **METHOD** CONVENTIONAL AND NONCONVENTIONAL COMPOUNDS. AMMONIA (as N) CHLORINE (TOTAL RESIDUAL, TRC) **DISSOLVED OXYGEN** 9.9 7.9 mg/l mg/l 304 D.O. Meter TOTAL KJELDAHL 0.5 mg/l 0.13 mg/l 3/wk,10mo 351.2 0.5 mg/l NITROGEN (TKN) NITRATE PLUS NITRIT 22.0 mg/l 18.48 mg/l 1/mo,10mo 351.2/353.2 0.5 mg/l OIL and GREASE PHOSPHORUS (Total) 6.08 mg/l 4.13 mg/l 1/mo,10mo 365.1 0.1 mg/l TOTAL DISSOLVED SOLIDS (TDS) TOT RECOVERAD

END OF PART B. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

ug/l

1/mo,10mo 200.7

46

ug/l

0.005 ug/l

FACILITY NAME AND	PERMIT NUMBER:		1	F American d 4/4 4/00
1	ns WWTP VA 0061859			Form Approved 1/14/99 OMB Number 2040-0086
	ATION INFORMAT			
PART C. CERTIFICA	ATION			
have completed and are	ic an applicable sections of re	om za, as explained in the a certification statement, applica	ermine who is an officer for the purposes pplication Overview. Indicate below wh ants confirm that they have reviewed Fo	
Indicate which parts o	f Form 2A you have comple	ted and are submitting:		
Basic Appli	cation Information packet	Supplemental Application	Information packet:	
		Part D (Expanded	Effluent Testing Data)	
		Part E (Toxicity T	esting: Biomonitoring Data)	
		Part F (Industrial	User Discharges and RCRA/CERCLA V	Vastes)
		Part G (Combined	d Sewer Systems)	
ALL APPLICANTS MUS	ST COMPLETE THE FOLLO	WING CERTIFICATION.		
who manage the system	or those persons directly residence that	nonsible for gathering the inform	under my direction or supervision in ac nation submitted. Based on my inquiry or prmation, the information is, to the best of for submitting false information, including	of the person or persons
Name and official title	Michael W. Johnson, Co	unty Administrator		
Signature	_ Oin & U_			
Telephone number	(757) 653-3015			
Date signed				•
Upon request of the pern works or identify appropr	nitting authority, you must sub iate permitting requirements.	omit any other information ne	cessary to assess wastewater treatment	practices at the treatment

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:

Courtland and Environs WWTP VA 0061859

Form Approved 1/14/99 OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity
 test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results
 of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. f no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

If no biomonitoring data is required, do n complete.	ot complete Part E. Refer to the App	olication Overview for directions on wh	ich other sections of the form to
E.1. Required Tests.			
Indicate the number of whole effluer	nt toxicity tests conducted in the pas	t four and one-half years.	
E.2. Individual Test Data. Complete the column per test (where each specie	e following chart <u>for each whole efflu</u> is constitutes a test). Copy this page	ent toxicity test conducted in the last f if more than three tests are being rep	our and one-half years. Allow one orled.
	Test number:	Test number:	Test number:
a. Test information.			
Test species & test method number			
Age at initiation of test			
Outfall number			
Dates sample collected			
Date test started			
Duration			
b. Give toxicity test methods followed	ed.		4
Manual title			
Edition number and year of publication			
Page number(s)			
c. Give the sample collection metho	od(s) used. For multiple grab sample	es, indicate the number of grab sample	es used.
24-Hour composite			
Grab			
d. Indicate where the sample was ta	aken in relation to disinfection. (Chec	k all that apply for each)	<u></u>
Before disinfection			
After disinfection			
After dechlorination			

FACILITY NAME AND PERMIT NUMBER:			Form Approved 1/14/99
Courtland and Environs WWTP VA 006	1859		OMB Number 2040-0086
Chronic:			
NOEC	%	%	9/
IC ₂₅	%	%	9/
Control percent survival	%	%	9/
Other (describe)			
m. Quality Control/Quality Assurance	> .	L	<u></u>
Is reference toxicant data available?			
Was reference toxicant test within acceptable bounds?			
What date was reference toxicant test run (MM/DD/YYYY)?			
Other (describe)			
E.3. Toxicity Reduction Evaluation. Is the	e treatment works involved in a To:	xicity Reduction Evaluation?	
Yes_ <u>▼</u> No If yes, de	escribe:		·
E.4. Summary of Submitted Biomonitorin cause of toxicity, within the past four a summary of the results.	g Test Information. If you have and one-half years, provide the date	submitted biomonitoring test informations as the information was submitted to the	on, or information regarding the e permitting authority and a
Date submitted:	_(MM/DD/YYYY)		
Summary of results: (see instructions)	•		
Summary of Test Results Attache			
•			
REFER TO THE APPLICATION	END OF PA	IRT E.	

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.

Courtland and Environs WWTP VA0061859

Part B. - Question B.4

Waste Management Inc. 3474 Atlantic Lane Waverly, VA 23890

DEQ Permit Number: 562

(804) 474-8574

Southeastern Public Service Authority 723 Woodlake Drive Chesapeake, VA. 23320

Permit Number: 417

(757) 420-4700

Note: Locations listed above are not currently utilized for sludge disposal.

CUMULATIVE DATA SUMMARY

Courtland Town WTP

NPDES: VA0061859

Outfall 001

Invertehrate		Vertebrate		Invoetokeato		77. 0.31	
		LC50 %		THE PROPERTY OF THE PARTY OF TH		The Control of the Co	
				100%	TUc=1	100%	TUc=1
>100%	TUa<1	>100%	TUa<1				
				100%	TUc=1	100%	TUc=1
>100%	TUa<1	>100%	TUa<1				
				100%	TUc=1	100%	TUc=1
>100%	TUa<1	>100%	TUa<1				
				100%	TUc=1	100%	TUc=1
>100%	TUa<1	>100%	TUa<1				
						<i>'</i>	
	>100% >100% >100% >100% >100%	>100% TUa<1 >100% TUa<1 >100% TUa<1 >100% TUa<1	LC50 % C50 %	LC50 % C50 % C50 %	LC50 %	LC50 %	LC50 % NOEC % NOEC %

VPDES SEWAGE SLUDGE PERMIT APPLICATION FORM

SCREENING INFORMATION

This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

- 1. All applicants must complete Section A (General Information).
- 2. Will this facility generate sewage sludge? <u>x</u> Yes _No

Will this facility derive a material from sewage sludge? \underline{x} No

If you answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material Derived From Sewage Sludge).

3. Will this facility apply sewage sludge to the land? $\underline{\underline{}}$ Yes $\underline{\underline{}}$ No

Will sewage sludge from this facility be applied to the land? x_Yes __No

If you answered No to both questions above, skip Section C.

If you answered Yes to either, answer the following three questions:

a. Will the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions?

_Yes _No Unknown

- b. Will sewage sludge from this facility be placed in a bag or other container for sale or give-away for application to the land? x_Yes __No
- c. Will sewage sludge from this facility be sent to another facility for treatment or blending? __Yes x No

If you answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).

If you answered Yes to a, b or c, skip Section C.

4. Do you own or operate a surface disposal site? Yes \underline{x} No

If Yes, complete Section D (Surface Disposal).



SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1.	Facil	ity Information.
	a.	Facility name:Courtland & Environs WWP
	b.	Contact person:Michael W. Johnson
		Title:County Administrator
		Phone: (757) 653-3015
	c.	Mailing address:
		Street or P.O. Box:24448 Old Bridge Rd.
		City or Town:CourtlandState:VAZip:23837
	d.	Facility location:
		Street or Route #:24448 Old Bridge Rd.
		County:Southampton
		City or Town: Courtland State: VA. Zip:23837
	e.	Is this facility a Class I sludge management facility?Yes _x_No
	f.	Facility design flow rate:
	g.	Total population served:
	h.	Indicate the type of facility:
	11.	x Publicly owned treatment works (POTW)
		Privately owned treatment works
		Frivately owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	A1	igant Information If the small and is 1960 and County to the county of the County
4.		icant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name:
	b.	Mailing address:
		Street or P.O. Box:
		City or Town: State: Zip:
	c.	Contact person:
		Title:
		Phone: ()
	d.	Is the applicant the owner or operator (or both) of this facility?
		owneroperator
	e.	Should correspondence regarding this permit be directed to the facility or the applicant? (Check one)
		facility applicant
2	D	· · · · · · · · · · · · · · · · · · ·
3.		it Information.
	a.	Facility's VPDES permit number (if applicable):
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
		or applied for that regulate this facility's sewage sludge management practices:
		Permit Number: Type of Permit:
		VA0061859 <u>NPDES</u>
4	India.	Country Descent consession treatment stores and the first treatment of the state of
4.		n Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
	iaciiii	ty occur in Indian Country?Yes _x_No If yes, describe:

- Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is 5. unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - Location of all sewage sludge management facilities, including locations where sewage sludge is generated, a. stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction.
- 7. Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? <u>x</u> Yes <u>No</u> If yes, provide the following for each contractor (attach additional pages if necessary). Name:McGill Environmental Systems Mailing address:5056 Beef Steak Road Street or P.O. Box:

City or Town: Waverly_

__ State:VA. ____ Zip:23890

Phone: (757) 647-6052

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

Permit No. VPA00837

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s). Accepts sludge for disposal at the facility

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seg. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. (See Attachment)

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic				
Cadmium				
Chromium				
Copper				
Lead				
Mercury				
Molybdenum				
Nickel				
Selenium				
Zinc				

9.	Certification. Read and submit the following certification statement with this application. Refer to the instructions to
	determine who is an officer for purposes of this certification. Indicate which parts of the application you have
	completed and are submitting:

_X	Section A (General Information)
x	Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
	Section C (Land Application of Bulk Sewage Sludge)
	Costion D (Confirm Director)

Section D (Surface Disposal)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title

Signature Www/h. L.

___ Date Signed 1/20/2015

Telephone number 751 - 653 - 3015

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge 1. Amount Generated On Site. Total dry metric tons per 365-day period generated at your facility:122 dry metric tons Amount Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or disposal, provide the following information for each facility from which sewage sludge is received. If you receive sewage sludge from more than one facility, attach additional pages as necessary. Facility name: a. b. Contact Person: Title: Phone (Mailing address: c. Street or P.O. Box: City or Town: State: Zip: d. Facility Address: (not P.O. Box) e. Total dry metric tons per 365-day period received from this facility: dry metric tons f. Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics: 3. Treatment Provided at Your Facility. Which class of pathogen reduction is achieved for the sewage sludge at your facility? a. Class B x___Neither or unknown Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce b. pathogens in sewage sludge: c. Which vector attraction reduction option is met for the sewage sludge at your facility? ___ Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) ___ Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) ___ Option 6 (Raise pH to 12 and retain at 11.5) ___ Option 7 (75 percent solids with no unstabilized solids) ___ Option 8 (90 percent solids with unstabilized solids) x None or unknown d. Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge:Bardenpho-Oxidation Ditch, Aerobic Digestion, Dewatering by Centrifuge ,offsite disposal at Mc Gill Environmental Systems e. Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: None Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and One

VPDES Sewage Sludge Permit Application Form (Rev 9/14/2012)

a.

of Vector Attraction Reduction Options 1-8 (EQ Sludge).

(If sewage sludge from your facility does not meet all of these criteria, skip Question 4.)

Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land:

		dry metric tons
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away? _Yes _No
5.N/A	Sale or	Give-Away in a Bag or Other Container for Application to the Land.
		te this question if you place sewage sludge in a bag or other container for sale or give-away prior to land application. Skip this
		if sewage sludge is covered in Question 4.)
	a.	Total dry metric tons per 365-day period of sewage sludge placed in a bag or other container at your facility for sale or give-away for application to the land: dry metric tons
	b.	Attach, with this application, a copy of all labels or notices that accompany the sewage sludge being sold or given away in a bag or other container for application to the land.
6.N/A	Shipme	ent Off Site for Treatment or Blending.
		te this question if sewage sludge from your facility is sent to another facility that provides treatment or blending. This question
	does not	apply to sewage sludge sent directly to a land application or surface disposal site. Skip this question if the sewage sludge is
		in Questions 4 or 5. If you send sewage sludge to more than one facility, attach additional sheets as necessary.)
	a.	Receiving facility name:
	b.	Facility contact: Title:
		Phone: ()
	c.	Mailing address:
	V.	Street or P.O. Box:
		City or Town: State: Zip:
	d.	Total dry metric tons per 365-day period of sewage sludge provided to receiving facility: dry
		metric tons
	e.	List, on this form or an attachment, the receiving facility's VPDES permit number as well as the numbers of
		all other federal, state or local permits that regulate the receiving facility's sewage sludge use or disposal
		practices:
		Permit Number: Type of Permit:
	f.	Does the receiving facility provide additional treatment to reduce pathogens in sewage sludge from your facility?YesNo
		Which class of pathogen reduction is achieved for the sewage sludge at the receiving facility? Class AClass BNeither or unknown
		Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to reduce pathogens in sewage sludge:
	g.	Does the receiving facility provide additional treatment to reduce vector attraction characteristics of the
	5	sewage sludge?YesNo
		Which vector attraction reduction option is met for the sewage sludge at the receiving facility?
		Option 1 (Minimum 38 percent reduction in volatile solids)
		Option 2 (Anaerobic process, with bench-scale demonstration)
		Option 3 (Aerobic process, with bench-scale demonstration)
		Option 4 (Specific oxygen uptake rate for aerobically digested sludge)
		Option 5 (Aerobic processes plus raised temperature)
		Option 6 (Raise pH to 12 and retain at 11.5)
		Option 7 (75 percent solids with no unstabilized solids)
		Option 8 (90 percent solids with unstabilized solids)
		None unknown Describe, on this form or another sheet of paper, any treatment processes used at the receiving facility to
		reduce vector attraction properties of sewage sludge:
	h.	Does the receiving facility provide any additional treatment or blending not identified in f or g above? YesNo
		If yes, describe, on this form or another sheet of paper, the treatment processes not identified in f or g above:

FACILITY NAME: Courtland & Environs WWTP

VPDES PERMIT NUMBER: <u>VA0061859</u>

	i.	If you answered yes to f., g or h above, attach a copy of any information you provide to the receiving facility to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.
	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?YesNo
	k.	If yes, provide a copy of all labels or notices that accompany the product being sold or given away. Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.
7.N/A	Land A	pplication of Bulk Sewage Sludge.
		te Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or
	6; compl	ete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry metric tons
	b.	Do you identify all land application sites in Section C of this application?YesNo If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples may be obtained in Appendix IV).
8.N/A	Surface	Disposal.
0.1 071		te Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal? YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ()
		Contact is:Site OwnerSite operator
	e.	Mailing address.
		Street or P.O. Box:
	f.	City or Town: State: Zip: Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
	1.	site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of
		all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface
		disposal site:
		Permit Number: Type of Permit:

List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the

Type of Permit:

Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9

VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?

Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid

Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill

Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week

Waste Management Regulation, 9 VAC 20-80-10 et seq.? ___Yes ___No

VPDES Sewage Sludge Permit Application Form (Rev 9/14/2012)

be watertight and covered? ___ Yes ___ No

and time of the day sewage sludge will be transported.

operation of this municipal solid waste landfill:

Permit Number:

f.

g.

h.

i.

REPORT OF ANALYSIS

CLIENT: Southampton County

ATTN: Raymond Bryant

ADDRESS: 17287 Pittman Road

Boykins, VA 23827

PHONE:

(757) 653-9269/653-8187cell

FAX:

rbryant@wwtp.us (DON'T FAX)

Special Notes:

RE: SLUDGE COURTLAND

SAMPLE COLLECTED BY: CLIENT

GRAB COLLECTION:

Date: 5/9/2013

Time: 1400

COMPOSITE COLLECTION:

Start Date:

End Date:

Time:

PICK UP BY: CLIENT

SAMPLE RECEIPT:

Date: 5/10/2013

Time: 1105

NUMBER OF CONTAINERS: 1

SAMPLE CONDITION: ✓ Good ☐ Other (See C-O-C)

REPORT'NO: 13-07380 16:37

SAMPLE ID:

COURTLAND

SAMPLE NO: 13-07380

	Method	JRA					
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Total Arsenic	6010C	3.82	< 3.82	mg/Kg	EFA	5/21/2013	1401
Total Cadmium	6010C	0.382	2.33	mg/Kg	EFA	5/21/2013	1401
Total Chromium	6010C	0.764	117	mg/Kg	EFA	5/21/2013	1401
Total Copper	6010C	1.53	306	mg/Kg	EFA	5/21/2013	1401
Total Lead	6010C	3.82	32.8	mg/Kg	EFA	5/21/2013	1401
Mercury	7471B	0.076	0.347	mg/kg	LEF	5/14/2013	1151
Total Molybdenum	6010C	3.82	7.46	mg/Kg	EFA	5/21/2013	1401
Total Nickel	6010C	3.82	15.5	mg/Kg	EFA	5/21/2013	1401
Total Selenium	6010C	3.82	4.74	mg/Kg	EFA	5/21/2013	1401
Total Zinc	6010C	3.82	1065	mg/Kg	EFA	5/21/2013	1401



REPORT OF ANALYSIS

SAMPLE ID: COURTLAND SAMPLE NO: 13-07380

Method JRA
Parameter Number QL Result Unit Analyst Date Time

NOTES:

JRA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

Reproduction of this report is not permitted, except in full, without written approval from James R Reed & Associates.

The results on this report relate only to the sample(s) provided for analysis.

Results conform to NELAC standards, where applicable, unless otherwise indicated.

Results in mg/kg are reported on a dry weight basis.

Authorized By: Llouis Clouber

Elaine Claiborne, Laboratory Director

Date: 22-May-13





CHAIN OF CUSTODY

Company Name: Southampton County Public Utilities Company Contact: Raymond Bryant Telepl Results To: Raymond Bryant	oublic Utiliti	es ephone: Fax:	tilities Telephone: 757-653-9269 Fax: 757-654-6025	-9269 -6025		·	Bottle ID Preserv.	A		= + +	ANALYSES REQUESTED	$\overline{\Box}$	——————————————————————————————————————										1 1 1				
Project ID: Sludge Court In		email: n	smith@	email: msmith@socoutilities.com	es.com			10C		***************************************			***************************************								~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	***************************************					
		Composite	te		Grab			* 60			·····							***************************************									
JRA Sample Sample Location ID*** / ろっType*	Start :	Start Time	End Date	End Time	Date	Time	Total # of cont.	Metals																			
	,				5-9-13	0041	1	×				\vdash	-			+					-						
										\top	\top	+	+					\neg		}	-	+					
										\dashv	\dashv	\dashv	-			-+		$\neg \uparrow$		_ [\dashv						
											\Box					\vdash			, ,								
										T	T		-			\vdash		1	1								
											\dashv	+							- 1	_	-						
										H	\Box	\vdash	\vdash			\vdash											
*WW= Wastewater GW = Groundwater DW - Drinking Water HW - Hazardous Waste OTHERS	no Water HM	l - Hazardo	us Waste	OTHERS						F		\vdash	-	L		-											
2					,				Preservatives:	ives:								- 1	- 1								
Sampled By: Kaymon Bryant	+		Date/Time:	1	L	11400	•		$1 = <6^{\circ}C$ $6 = Na_2S_2O_3 + HCI$	တ ။	Na ₂ S	² 03+	Ω		10	:Asc	ф	≖.	5	c Aci	c Acid +	c Acid + HO	10=Ascorbic Acid + HCI	c Acid + HCI	c Acid + HCI	c Acid + HCI	c Acid + HCI
By: Rosinali			Date/Time:	لما	LV	1105	•		$2 = \text{HNO}_3$ $7 = \text{NaOH} + \text{ZnOAc}$	7 =	NaO	7 + Z	nOA	n	<u></u>	11=HCI											
Received By: In word of	7		Date/Time:			11:05	•		$3 = H_2SO_4 8 = H_2SO_4 + FAS$	20 II	H ₂ SC	+	AS		12=	Zin	c Ac	8	~	tate	tate + 1	tate + Nac	tate + NaOH	12=Zinc Acetate + NaOH	tate + NaOH	tate + NaOH	tate + NaOH
By:			Date/Time:				•		4 = NaOH 9 = NH4CI	9=	NH.C				သူ	ä	OS	ω <u> </u>		프	13=Na ₂ SO ₃ + HCI	프	HO	Ω	₽.	HO	HCI
Received By:			Date/Time:	•					$5 = Na_2S_2O_3$	Õ					4-	Ä	OS	4		工	H ₂ SO,	14=Na ₂ SO ₃ + H ₂ SO ₄	H_2SO_4	H ₂ SO ₄			

JAMES R. REED and ASSOCIATES (757) 873-4703; FAX (757) 873-1498

*Arsenic, Cadmium/ Chromium, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Zinc

Not for Compliance _for Compliance

Arrival Temp:

റ്

REPORT OF ANALYSIS

CLIENT:

Sou hampton County

ATTN:

Dennis E. Beale

ADDRESS: 242\$3 Old Bridge Road

art day a

Cou tland, VA 23837

PHONE:

(757) 653-9269/653-8187cell

FAX:

e: dleale@southamptoncounty.org

Special Notes:

RE: COURTLAND SLUDGE

Start Date:

Time:

Time: 1104

SAMPLE COLLECTED BY: CLIENT

End Date:

Time:

PICK UP BY: REED - JS

SAMPLE RECEIPT:

GRAB COLLECTION:

COMPOSITE COLLECTION:

Date: 11/24/2014

Date: 11/24/2014

Time: 1406

NUMBER OF CONTAINERS: 1

SAMPLE CONDITION: ✓ Good ☐ Other (See C-O-C)

REPORT NO: 14-18161 8:32

SAMPLE ID: SAMPLE NO: SLUDGE BOX

-18161

	Method	JRA					
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Total Arsenic	6010C	1.90	< 1.90	mg/Kg	EFA	12/03/14	1139
Total Cadmium	6010C	0.191	1.87	mg/Kg	EFA	12/03/14	1139
Total Chromium	6010C	0.381	94.8	mg/Kg	EFA	12/03/14	1139
Total Copper	6010C	0.762	308	mg/Kg	EFA	12/03/14	1139
Total Lead	6010C	1.91	34.4	mg/Kg	EFA	12/03/14	1139
Mercury	7471B	0.04	0.265	mg/kg	PEJ	12/03/14	1812
Total Molybdenum	6010C	1.91	8.22	mg/Kg	EFA	12/03/14	1139
Total Nickel	6010C	1.91	13.9	mg/Kg	EFA	12/03/14	1139
Total Selenium	6010C	1.91	5.09	mg/Kg	EFA	12/03/14	1139
Total Zinc	6010C	1.91	1136	mg/Kg	EFA	12/03/14	1139

James R. Reed & Associates

770 Pilot House Drive, Newport News, VA 23606

(757) 873-47 3 • Fax: (757) 873-1498

VELAP# 460013 EPA# VA00015



REPORT OF ANALYSIS

SAMPLE ID: STUDGE BOX SAMPLE NO: 14-18161

Parameter	_	Method Number	JRA QL	Result	Unit	Analyst	Date	Time
NOTES:				***************************************				

JRA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

Reproduction of this report is not permitted, except in full, without written approval from James R Reed & Associates.

The results on this report relate only to the sample(s) provided for analysis.

Results conform to NELLAC standards, where applicable, unless otherwise indicated.

Results reported on a dry weight basis.

Authorized By: Clause Claubhe

Elaine Claiborne, Laboratory Director

Date: 05-Dec-14

James R. Reed & Associates 770 Pilot House Prive, Newport News, VA 23606

(757) 873-470 Fax: (757) 873-1498

VELAP# 460013 EPA# VA00015





CHAIN OF CUSTODY

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		i i			Đ.	Sulfide												npliance	Not for Compliance
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	14=Na ₂ SO ₃ + H ₂ SO ₄	14=N			3	$5 = Na_2S_2O_3$	Oi II		•	100	-/.	11-24	Date/Time: 11 - 24 -			2	The The		Received By:
	13=Na ₂ SO ₃ + HCI	13=N		Ö.	4 = NaOH 9 = NH4CI	NaOH	4 11 7		•	1406	14	11-20	Date/Time: // - フ. ம - 1 少			me I	12	³y:	Relinquished By:
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	Ω	11=HCI	'nOAc	$2 = HNO_3$ $7 = NaOH + ZnOAc$	7 = Na	NO3	2=+		1	1112	2014	11-24	Date/Time: _	the !	me 12	1	Dennis	. Y	Relinquished By:
	10=Ascorbic Acid + HCI	10=A	Ω H	$\frac{\text{ives:}}{6 = \text{Na}_2\text{S}_2\text{O}_3 + \text{HCI}}$	<u>/es:</u> 6 = Na	Preservatives:	Pres		Hoy	The state of the s	-2014	11-24-2014	Date/Time:	and I	Joen &	5 Beale 19	Demis		Sampled By:
The state of the s										2		HERS	Waste, OT	Hazardous	Vater, HW -	WW= Wastewater, GW = Groundwater, DW - Drinking Water. HW - Hazardous Waste, OTHERS	Groundwate	vater, GW =	WW- Waste:
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									1	7 Cell)	(653-8187 Cell)	9269	757-653-	Telephone: 757-653-9269	Te	: Beale	Dennis E	Company Contact: Dennis E. Beale	Compar
									Preserv.					ties	ublic Utili	Company Name: Southampton County Public Utilities	Southan	any Name:	Comp
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	ANALYSES REQUESTED	EQUE	ES R	ALYS	AN														

JAMES R. REED and ASSOCIATES (757) 873-4703; FAX (757) 873-1498 770 Pilot House Drive, Newport News, VA 23606

Arrival Temp:

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REPORT OF ANALYSIS

CLIENT:

Southampton County

ATTN:

Dennis E. Beale

ADDRESS: 24283 Old Bridge Road

Courtland, VA 23837

PHONE:

(757) 653-9269/653-8187cell

FAX:

e: dbeale@southamptoncounty.org

Special Notes: RE: COURTLAND WWTP

SAMPLE COLLECTED BY: CLIENT

GRAB COLLECTION:

Date: 12/29/2014

Time: 1055

COMPOSITE COLLECTION:

Start Date:

Time:

End Date:

Time:

PICK UP BY: REED - DB

SAMPLE RECEIPT:

Date: 12/29/2014

Time: 1355

NUMBER OF CONTAINERS: 1

SAMPLE CONDITION: ☑ Good ☐ Other (See C-O-C)

REPORT NO: 14-19959 14:36

SAMPLE ID: COURTLAND SAMPLE NO: 14-19959

_	Method	JRA					
Parameter	Number	QL	Result	Unit	Analyst	Date	Time
Total Arsenic	6010C	2.54	< 2.54	mg/Kg	EFA	01/05/15	1419
Total Cadmium	6010C	0.254	1.60	mg/Kg	EFA	01/05/15	1419
Total Chromium	6010C	0.508	86.8	mg/Kg	EFA	01/05/15	1419
Total Copper	6010C	1.02	279	mg/Kg	EFA	01/05/15	1419
Total Lead	6010C	2.54	29.7	mg/Kg	EFA	01/05/15	1419
Mercury	7471B	0.05	277	mg/kg	PEJ	01/07/15	1227
Total Molybdenum	6010C	2.54	7.80	mg/Kg	EFA	01/05/15	1419
Total Nickel	6010C	2.54	13.4	mg/Kg	EFA	01/05/15	1419
Total Selenium	6010C	2.54	4.88	mg/Kg	EFA	01/05/15	1419
Total Zinc	6010C	2.54	959	mg/Kg	EFA	01/05/15	1419



REPORT OF ANALYSIS

SAMPLE ID: COURTLAND SAMPLE NO: 14-19959

Method JRA Parameter Number QLResult Unit Analyst Date Time NOTES:

JRA Quantification Level is the concentration of the lowest calibration standard above zero with a reliable signal.

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The results on this report relate only to the sample(s) provided for analysis.

Results conform to NELAC standards, where applicable, unless otherwise indicated.

Results reported on a dry weight basis.

Authorized By:

Elaine Claiborne, Laboratory Director

Date: 08-Jan-15



CHAIN OF CUSTODY

				OTHERS	dous Waste,	₩ - Hazarı	ng Water, h	Groundwater, DW - Drink	WW= Wastewater, GW = Groundwater, DW - Drinking Water, HW - Hazardous Waste, OTHERS
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		×	12-29 1055					Courtland	19459 Sludge
		of cont. Me		Time	Date	Time	Date		D# /4 Type*
		Total #	Date Time	End	End	Start	Start	Sample Location	
		*	Grab		Composite	Com			

							7	Project ID: Courtland WWTP	Project ID:
		···							
2					27	s, VA 238	d, Boykin	Address: 17287 Pittman Road, Boykins, VA 23827	Address:
		***************************************		54-6025	Fax: 757-654-6025	771		Results To: Dennis Beale	Results To:
				53-9269	Telephone: 757-653-9269	Telepho		Dennis Beale	Company Contact: Dennis Beale
		Preserv.				Utilities	ty Public	Company Name: Southampton County Public Utilities	Company Name:
		Bottle ID A							
ANALYSES REQUESTED									

Not for Compliance	X for Compliance	Received By:	Relinquished By:	Received By:	Relinquished By:	Sampled By:	
		Dear Box	Wale Bind	Trave Bond	Jennis Beale 1 Stemme Buch	Ucan's Wealt / Denna Pens	
		Date/Time: 12-29-14 1355	Date/Time: 12 - 28 - 14 1355	Date/Time: 12-29-14 1104	Date/Time: 1/04 12-29-2014	Date/Time: / 1/29-2014 1055	
		$5 = Na_2S_2O_3$	$4 = NaOH 9 = NH_4CI$	$3 = H_2SO_4 8 = H_2SO_4 + FAS$	$2 = HNO_3$ $7 = NaOH + ZnOAc$	$1 = <6^{\circ}C$ $6 = Na_2S_2O_3 + HCI$	Preservatives:
		14=Na ₂ SO ₃ + H ₂ SO ₄	13=Na ₂ SO ₃ + HCI	12=Zinc Acetate + NaOH	11=HCl	10=Ascorbic Acid + HCI	

JAMES R. REED and ASSOCIATES (757) 873-4703; FAX (757) 873-1498

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* Metals: As, Cd, Cr, Cu, Pb, Hg, Mo, Ni, Se, Zn

VPDES Permit Application Addendum

Who will be legally responsible for the wastewater treatment facilities and compliance with the permit? This may or may not be the facility or property owner. 2. Is this facility located within city or town boundaries? Yes No x 3. Provide the tax map parcel number for the land where the discharge is located. 76/19A
3. Provide the tax map parcel number for the land where the discharge is located. 76/19A
4. For the facility to be covered by this permit, how many acres will be disturbed during the next
five years due to new construction activities? None
5. What is the design average effluent flow of this facility? 0.99 MGD
For industrial facilities, provide the max. 30-day average production level, include units: N/A
In addition to the design flow or production level, should the permit be written with limits for any other discharge flow tiers or production levels? Yes No x If "Yes", please identify the other flow tiers (in MGD) or production levels:
Please consider the following questions for both the flow tiers and the production levels (if applicable): Do you plan to expand operations during the next five years? Is your facility's design flow considerably greater than your current flow?
6. Nature of operations generating wastewater:
Domestic residential, Commercial
60 % of flow from domestic connections/sources
Number of private residences to be served by the treatment works: 625
40 % of flow from non-domestic connections/sources RECEIVED — DEC
7. Mode of discharge: x Continuous Intermittent Seasonal JAN 2 9 2015
Describe frequency and duration of intermittent or seasonal discharges:
Office
8. Identify the characteristics of the receiving stream at the point just above the facility's discharge point:
X Permanent stream, never dry
Intermittent stream, usually flowing, sometimes dry
Ephemeral stream, wet-weather flow, often dry
Effluent-dependent stream, usually or always dry without effluent flow
Lake or pond at or below the discharge point
Other:
9. Approval Date(s):
O & M Manual June 13, 2011 Sludge/Solids Management Plan June 25, 1987

<u>Please submit this completed form with your application Maintenance fee billing will be sent using this information</u>

Permit Maintenance Fee Information

(1) Facility Name Courtland and Environs WWTP

- (2) Permit Number: VA0061859
- (3) Tax Payer ID [FIN]: 54-6001618
- (4) Billing Information:

Corporate Name or Owner Name: Southampton County

Corporate Billing Address or Owner Address:

P.O. Box 400

Courtland, VA. 23837

(5)Billing Contact:

Name, Title: Michael W. Johnson, County Administrator / Southampton County

Phone Number:

(757) 653-3015

E-mail Address:

mjohnson@southamptoncounty.org



